

FORMER SUNPORT TERMINAL BUILDING is viewed by R. A. Bice (7000) during a recent visit to check on progress in remodeling the structure for the Albuquerque museum. The museum should be open to the public this fall.

R. A. Bice Spends Free Time Helping to Create Local Museum

An Albuquerque museum has rapidly progressed from periodic discussions on the desirability of a museum to the actual preparation of the facility in the remodeled, former terminal building at the Sun-

The recent surge of action in creating a museum can be credited to a small committee under the chairmanship of R. A. Bice, vice president 7000; various civic leaders; and H. E. Kinney (5622) with the other city commissioners.

In addition to serving as chairman of the Museum Advisory Board since his appointment by the city commission late last year, Mr. Bice was recently named by the city manager to serve as chairman of a screening committee for the selection of a museum director.

Remodeling of the Sunport building is

scheduled for completion by late August and the museum should be opened to the public late this fall. In addition, the organizational framework for a museum board of trustees has been established, the screening committee is reviewing applications for a museum director, museum-related groups are working on suggestions and criteria for items to be displayed and the Albuquerque Museum Association is launching a membership drive.

Perhaps it is Mr. Bice's interest in historical items and art - he is a member of the Albuquerque Archeological Society and his brother is an artist - which motivates him to devote many free hours to museum work. Other personal attributes that have contributed to making the museum a reality are his administrative skills and back-

(Continued on Page Two)

SANDIA LAB NEWS



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SANDIA LABORATORIES ALBUQUERQUE, NEW MEXICO LIVERMORE, CALIFORNIA

OPERATED BY SANDIA CORPORATION FOR THE U. S. ATOMIC ENERGY COMMISSION

Employees to Start Exchanging Old Badges for New Ones on July 19

Next Wednesday, July 19, Sandia Corporation employees in Albuquerque, Livermore and Tonopah will start exchanging their Tech Area access badges for new ones. The changeover, required every five years by security regulations of the Atomic Energy Commission, will be completed by Friday, July 28.

The badges will be delivered to organization offices by security personnel. Supervisors will issue each employee his new badge and pick up the old one. Employees who are on vacation or off work during the exchange period will pick up their badges starting July 31 from the badge office in Bldg. 800. (At Livermore, Bldg. 911.)

The new badges will be slightly smaller than the ones now in use. They will have a new kind of detachable clasp to enable easy "fit" in a standard-sized wallet.

The "traffic light" color coding now in use will continue — green (go) badges for Sandia employees, amber (caution) for limited access personnel and red (stop) for visitors not permitted access to classified areas or information.

The new badges will use the current designations for entry into limited access areas such as Area II. In some cases, the markings will be made more specific.

Posters with full explanation of the new badges will be posted on official bulletin boards July 17. The security personnel who deliver the packages of badges to division



BADGE EXCHANGE-Betty Jo Espinosa of Security's Administrative Section 3241-2 displays new badge (right) which will be exchanged for the old one (left) next week. The new badges are slightly smaller than the old ones but retain the same color code system and access designations.

offices will also have a supply of the posters available for use within the organization.

Any questions concerning the badge exchange or the badge access system should be referred to Security Information and Education Division, tel. 264-3856.

UNIVAC 1108-II

ew Multi-Processing Computer Slated for Sandia

new high-speed, multi-processing UNIVAC 1108-II computer system with 40 remote time-sharing teletypewriters, 10 remote time-sharing display devices similar to television screens, and two satellite computers is scheduled for installation at Sandia Laboratory late this year. This system will provide a major increase in capabilities that will permit the release of some present computer equipment.

The UNIVAC 1108-II dual central processing system will be installed in a Bldg. 880 addition which is currently under construction. Remote teletypewriters and display devices will be located in various buildings throughout the technical area. One remote UNIVAC 1004-III satellite computer will be in Bldg. 806 and another one in Bldg. 836.

Plans call for the system to be installed in two phases. The first phase, scheduled for installation in December, will consist of an operating system with a single central processor and 10 of the remote consoles. The remaining consoles will be phased-in during the following two or three months. The full operating system using two central processors, is expected to be operational by July 1968.

When fully operational, the new system is expected to be capable of processing data nine times faster than Sandia's existing computers. Its characteristics include concurrent processing of a large number of programs by multi-programming techniques and the simultaneous use of two processors; direct access on-line through remote teletypewriter consoles and through TV-like display devices with keyboard entry; a hierarchy of on-line mass storage devices; simultaneous batch processing of large production-type programs; and concurrent processing of input and output through a variety of peripheral devices.

During the past four years Sandia has been experimenting with satellite computer concepts where small remote computers feed information to a large central computer up to eight miles away. The primary function of the small computers is to perform peripheral processing for the large computer, such as card-to-tape transfer of input programs and the printing, card punching and plotting of the output.

The 40 remote consoles distributed throughout Technical Area I will provide most of the major user groups with easy access to computing service. Through the time-sharing feature, each of the users will simultaneously be provided short turnaround-time on his problems. The central processor's speed is so much faster than the response of an individual console that each user will be unaware of a delay in response.

The small display devices (similar to television screens) will be used to monitor problems during computation and to rapidly display computed information when printed copy is not needed.

The central site equipment of the new system to be installed in the Bldg. 880 addition includes two 1108-II central processors; 196,608 36-bit words of 750 nanosecond central memory; an input/output controller, a dual-channel flying-head drum subsystem with five-million word capacity and 240,000 words-per-second transfer rate; a dual-access Fastrand II mass-storage subsystem with 88-million word capacity and 26,282 words-per-second transfer rate; a dual-channel magnetic-tape subsystem with 16 VIII-C compatible transports with 200,-556, and 800 bit-per-inch recording densities and 120 inch-per-second speed; and four on-line 1004-III card readers, four line printers, and two card punch subsystems each capable of 600 lines-per-minute and

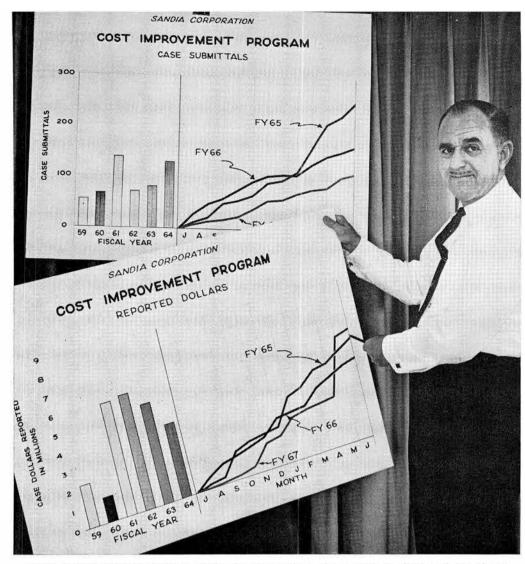
600 cards per minute.

The new system will incorporate the latest improvements in the computer field. including faster speeds, larger mass storage, multi-programming, multi-processing,

and time sharing. The time-shared system is expected to meet the Laboratory's anticipated computing needs at least until



LOCATION OF NEW COMPUTERS is discussed by (I to r) J. L. Tischhauser (9420): W. C. Scrivner, director of Computing 9400; and J. E. Wesbrook (9411) in the new addition to Bldg. 880. The UNIVAC 1108-II dual central processing system will be installed in the new structure.



COST IMPROVEMENT RECORD of Sandia Corporation since 1959 is displayed by Elmer Devor, Division 2563 supervisor. FY '67, with only 108 cases reported, was the best cost improvement effort at Sandia with more than six million dollars saved.

plus a committee from Bendix-Kansas

The team investigated the high rate of

damage to cables during retrofit and other

operations with stockpiled weapons. The

team outlined a method and wrote specifi-

cations for repair of the material. Result-

ing savings will amount to \$1,025,000 dur-

their cost improvement actions," Mr. Devor

says. "We're sure that many Sandians reg-

ularly accomplish cost improvements along

with their other job responsibilities. The

reporting of these actions helps promote the Company image of professionalism

and maintains our reputation for knowing

as cost reductions if they save appropriated

or programmed funds and have an impact

on a committed budget. They must reduce

the cost of an existing product, method or

Cost avoidances are actions which reduce

Savings can be claimed upon implemen-

The actions must not sacrifice safety,

End objective of the Cost Improvement

"Only with the help of all employees

tation of an action which saves \$100 or

quality or reliability. All cases are audited

Program is to provide more product or ser-

vice for each tax dollar spent by the Cor-

can the program be maintained," Mr. De-

vor says. "We've established a fine record,

and with continued cooperation in report-

ing cost improvement actions, there's rea-

son to believe that in 1968 we can again

report an increase in the amount of cost

Speakers

F. L. Vook (5211), "Irradiation Induced

R. T. Dillon (5590), "Civil Air Patrol

Defects in Silicon." Purdue University sem-

Program." Alamogordo Luncheon Lions

Club and Albuquerque Breakfast Civitan

A. Y. Pope (9300), "Research and De-

V. E. Blake (9310), "Aerospace Nuclear

Safety." Second International Symposium

on Nucleonics in Aerospace, July 12, Col-

velopment at Sandia Corporation and the

Outlook for Atoms," Paducah Rotary Club,

inar, May 19, Lafayette, Ind.

Club, both June 27.

umbus, Ohio.

June 28, Paducah, Ky.

the amount of additional funds needed or

avoid the expenditure of funds which are

not part of a committed budget.

by organizations 4130 and 4150.

improvements."

Cost improvement actions are credited

"We need to have more Sandians report

ing the next two years.

the value of a dollar.

Division 2563 Reports

Sandia Achieves \$6,221,000 in Cost Improvements in FY 1967

Two cost improvement actions in May, amounting to almost three million dollars, gave Sandia its best year since the Cost Improvement Program was introduced in 1959.

A total of \$6,221,000 in cost improvements was reported for fiscal year '67 by Value Engineering and Cost Improvement Division 2563.

"The two cases submitted in May accounted for almost half of the total dollars. The other 106 cases which went into this year's total were important, but the total number of cases was low compared to previous years," Elmer Devor, Division 2563 super-

The previous high total of cost improvements was achieved in 1962 when \$6,135,-250 was reported. More individual cases than this year's 108 were reported in 1961, 1964, 1965 and 1966. Personnel who attended Value Engineering Workshops were involved in about half of the cases submitted this year.

One of the largest savings (\$1,915,000 submitted in May by J. E. Simpson of Systems Engineering-Production Division 1521) was the direct result of Value Engineering Workshop training. Mr. Simpson applied value engineering techniques to a problem involving weapon components, and devised a means for two, rather than three, components to provide the specified performance requirements with higher reli-

The other million-dollar cost improvement action was made by a team composed of William F. Shoemaker (1521), George Voida (1432) and R. W. Durand (2522)

SANDIA LAB NEWS



SANDIA LABORATORIES ALBUQUERQUE, NEW MEXICO LIVERMORE, CALIFORNIA

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Supervisory Appointments



BRUNO MOR-OSIN to supervisor of the newly created Chemical Physics Research Division 5131, effective July 1.

He joined San dia's fundamental research group in May 1961 where he has been con-

cerned with defraction studies.

Before coming to the Laboratory, Bruno conducted material studies on microwave devices for a year and a half at Hughes Aircraft at Culver City and Malibu,

Bruno received his BA degree in chemistry from the University of Oregon in June 1956 and a PhD in physical chemistry from the University of Washington in December 1959.

He is a member of the American Crystallographic Association, American Physical Society and the Chemical



CID H. DALIN, JR., to supervisor of Printing Section 3462-3, effective July 1.

Cid was employed Sandia as a pressman in printing in March 1956. Two years later, he was made lead pressman on the

night shift. In 1961, he was transferred to the copy camera area where he has been the lead man on the day shift.

Cid worked for a moving and storage company in Montana for five years before coming to Albuquerque. For a year before that he was a printer for the Montana State Highway Commission.

From 1948 to 1949, he studied civil engineering at Montana State College. He served with a U.S. Army lithographic section as a pressman, cameraman and platemaker from 1945 to 1946, mainly in the Canal Zone.

Continued from Page One

ground as a former city commissioner. However, he feels the progress is due to the cooperative efforts of a large number

His two committees will be abolished after a board of trustees is established and a museum director selected. Last week an ordinance was written for submission to the city commission. It establishes the museum and its organizational structure.

The next step, according to the Advisory Board's recommendations, will be for the city manager and the Albuquerque Museum Association to each recommend four candidates for membership on the museum's board of trustees. The city commission then appoints eight members to the board, who then elect the ninth member of the policymaking group.

Overall operation of the museum will be a cooperative effort of the city and the Albuquerque Museum Association. The Association will play an important part in providing the majority of the acquisitions, supplying the many volunteer services (such as manning the sales desk, serving as guides, and cataloging activities), and providing other specialized talents that may be needed.

success of the museum by joining the Albuquerque Museum Association during its current membership drive. The seven membership categories and dues for each are: active, \$3 annually; family, \$10 annually; sustaining, \$50 annually; commercial, \$100 annually: life, a single \$200 contribution; patron, \$300 contribution; and benefactor, \$1000 contribution. Application forms are available from R. E. Hepplewhite (2550).



SHAWKEET HIN-DI to supervisor of the newly created Photolithographic Section 3462-1, effective July 1.

Shawkeet joined Sandia in March 1957 as a document clerk in design information processing and distribu-

tion. A year and a half later, he transferred to reproduction as a diazo operator. He was made a copy-flow operator in xerography in January 1960. In August 1964 he transferred to technical illustrations where he worked as a camera operator for eight months. He was then made lead man in Diazo and Rapid Copy Services Sec-

Shawkeet studied engineering at the University of New Mexico for two semesters before coming to the Laboratory.



GEORGE A. SAMARA to supervisor of Physics of Solids Research Division 5132, effective July 1.

George joined Sandia's physical research group in March 1962 where he studied the physical properties

of solids under high pressure. From February 1963 to February 1965, he worked with a solid state physics group of the Institute for Exploratory Research at the U. S. Army Electronics Laboratories in Ft. Monmouth, N. J., while on a military leave of absence. He then returned to the Laboratory where he has continued studies of solids under high pressure.

George received his BS degree in chemical engineering from the University of Oklahoma in June 1958. He was awarded both his MS and PhD degrees from the chemistry and chemical engineering department at the University of Illinois with a minor in physics in June 1960 and March 1962 respectively.

He is a member of the American Physical Society and on the research committee on pressure technology of the American Institute of Mechanical Engineers.

Congratulations

Mr. and Mrs. Warner Jones (9411), a son, Bradley L., on June 7.

Mr. and Mrs. F. W. Bolek (9328), a son, Timothy William, June 12.



Take a Memo, Please

Rosemary Kilmer (3126)

Power mowers save time and effort. Safety shoes save toes. It's wise to wear safety shoes at home as well as at work.

of people.

Along with Mr. Bice, other Sandians have contributed their services after working hours. V. O. Easley (4543) designed the lighting system. C. E. Jordan and W. W. Troy (both 3243) helped to specify a security system (alarms, window grills, lock systems, etc.).

All Sandians can contribute to the



CERTIFICATE FOR COMPLETION of the drafting and design curriculum is admired by Ken Gentry (2212-2) after he received it from C. R. Barncord, director of Design Information Center 2200, during a recent ceremony.

First Employee to Complete Drafting Curriculum is Honored

W. Kendall Gentry (2212-2) was honored last week as the first employee to complete the drafting and design curriculum in Sandia's out-of-hours technical institute program.

The technical institute equivalency certificate that was presented to him symbolized about 900 hours of classroom work, some 11 hours of homework each week and a real sense of accomplishment. For Ken's family, it was an occasion for rejoicing.

Ken reports that his wife has been enthusiastic about his educational efforts and has cooperated by sacrificing some family social life for his home-study sessions. However, his daughters, ages eight and nine, had become somewhat impatient.

Ken, who is already planning to take at least one course this fall, believes acquiring new knowledge is stimulating. If not enrolled in the out-of-hours program, he



"LEGIONNAIRE OF THE YEAR" plaque was presented to Flavio Gonzales, Jr. (4212-3) during the recent State American Legion convention.

N. M. American Legion Honors Flavio Gonzales

Flavio Gonzales, Jr. (4212-3) was designated "Legionnaire of the Year" during the State American Legion convention held in Albuquerque this month.

The honor was bestowed upon him in recognition of his outstanding performance in membership drives as well as activity in the various Legion functions.

Flavio was with an Army Ordnance group in Germany during World War II and joined Carlisle-Bennet Legion Post No. 13 in Albuquerque in 1959. Since that time he has served on the Post Executive Committee from 1963-65, was Vice Commander from 1964-66 and Commander for 1966-67. In addition to being No. 1 in the state for membership during the past four years, Flavio has also worked on the annual Fourth of July Fireworks Committee, the "40 & 8" Shoe Drive, the Veterans Hospital Committee, and the Entertainment Committee.

feels he would probably waste some of his free time.

The subjects Ken studied in the design and drafting curriculum included statics, physics I, parts I and II of strength of materials, mathematics III, English composition, basic electricity, basic electronics, parts I and II of manufacturing processes, dynamics, hydraulics, mechanisms and machine design. In addition, he took several non-credit courses.

After joining the Laboratory as a draftsman in September 1956, Ken took several night courses at the University of New Mexico for two years. Before his employment here, he was a clerk and carrier for the Albuquerque post office from 1954 to 1956.

Of the 384 enrollments in Sandia's outof-hours technical institute program last semester, some 40 employees have completed more than half of their course work.

Employee Training and Education Division 3132 offers technical institute level programs in electronics, drafting and design, mechanical and industrial technology. Resources of local high schools and universities are used to meet course requirements when possible.

Out-of-hours courses are provided during the lunch hour and after working hours without charge to employees who meet the prerequisites. Students study on their own time and must maintain a satisfactory scholastic standing. More than 1200 employees are expected to enroll in the out-of-hours program this fall.

Take Note

Don Parker (3311) is a leader for Boy Scout Troop 393. Recently the troop was camped in Cochiti Canyon in the Santa Fe National Forest when lightning hit a tree, starting a fire on the hillside.

Don is a member of Sandia's Pre-Emergency Planning Committee and was able to put his extensive knowledge of fire fighting and emergency procedures to good use in leading his boys to extinguish the forest fire.

The troop received recognition from Clarence E. Rice, Tesuque District Ranger, Santa Fe National Forest, for their immediate and capable actions.

John Olson (2225) shot a sparkling 238 on 54 holes to take the City Senior Golf championship crown. The first round of the recent tournament was played at Los Altos, the second on the University Course and the third at Paradise Hills. Thirty senior entrants competed in the medal play tournament.

Local Suppliers Will Visit Lab's Development Shops

Sixty-five representatives of 41 companies will visit the Laboratory July 21 as part of a continuing program to improve communications between Sandia and local firms doing business with the Laboratory.

The program, the first in some eight years, will start at the Sphere of Science. R. J. Hansen, director of Development Shops 4200, will welcome the visitors.

The group will then tour Sandia's development shops and inspection facilities in the morning and afternoon. B. D. Neil (4211) and F. A. Bentz (4373) will discuss working relationships at a luncheon at the Coronado Club.

Development Shops, Purchasing and Traffic organizations are sponsoring the program. Community Relations Division 3433 is coordinating tour details.

Astronautical Society Conducts Symposium

Several Sandia technical papers were presented during a symposium of the Rocky Mountain Section, American Astronautical Society on July 13-14 in Denver.

They are:

"An Analysis for Sterilization Modeling" by J. P. Brannen (2571);

"Instrumentation for Atmospheric Density and Composition Measurements Above 100 Kilometers" by R. O. Woods (5235);

"A Method of Determining Some Geological Parameters of Planet Surfaces" by V. K. Smith (9226);

"A New Approach to the Microbiological Sampling of Surfaces: the Vacuum Probe Sampler" by V. L. Dugan (2572);

"Rocky Mountain Resources for Aerospace Science and Technology" by L. M. Bossart (9226).



CERTIFICATE expressing appreciation for Sandia Corporation's participation in the Youth Opportunity Campaign is displayed by Alice Miner (3154), left, and Eleanor Kelly (3151). The certificate was accompanied by a letter from Vice President Hubert Humphrey. Sandia has 110 Youth Opportunity trainees on roll this summer. Eleanor was responsible for the personnel interviewing. Alice handled coordination for job assignments within the Laboratory.

Always wanted to appear on the stage? Here's your chance.

Crawford MacCallum (5231), the producer for Old Town Studio, reports an urgent need for Spanish-speaking actors—no experience necessary—for the forthcoming performance of Lorca's "La Zapatera Prodigiosa." Tryouts will be held July 16 at Old Town Studio, 1208 Rio Grande NW.

The Sandia Lab Handicap Bowling League is currently reorganizing to include seven new teams in the competition. Team members are needed. The league meets on Thursdays at 6:30 p.m. at the Holiday Bowl. For additional information, contact Dutch Eisold (2213), tel. 298-1990.

The New Mexico area chapter of the American Institute of Industrial Engineers won two awards during the 18th annual AIIE convention, held recently in Toronto, Canada.

Lee Stinnett (4517), immediate past president, and Al Kaping (4332), official delegate to the convention, received honors in behalf of the chapter members. The Award of Excellence was presented for the chapter's performance in the national AIIE chapter development program during 1966-67. The Frank J. Johnson Award was given in recognition of the chapter's having earned the Award of Excellence for five consecutive years.

Don Arquette (1422) is the 1967-68 president of the New Mexico area chapter.

On Mud Lake Near TTR

Tonopah Test Range Personnel Get a Look at X15

Tonopah Test Range personnel had an opportunity to see the famed X15 rocket ship when the hypersonic craft made a recent emergency landing on Mud Lake, a dry lake bed 15 miles west of the range.

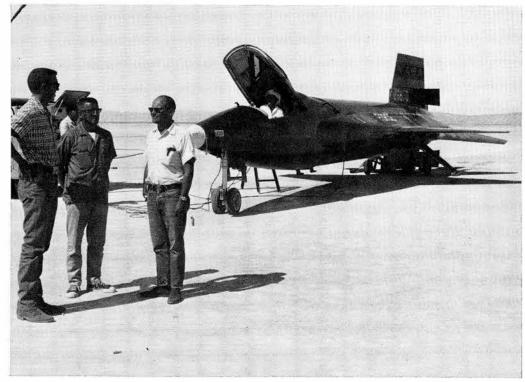
Both the pilot and X15 were unharmed. An electrical malfunction forced the pilot to make a manual "minor re-entry" into the earth's atmosphere from about 155,000 feet and set the craft down on Mud Lake, one of the sites selected for routine emergency landings.

The National Aeronautics and Space Administration's 50-foot long craft has a Mach 6 capability (about 4450 mph) and can reach an altitude of 350,000 feet. The rocket motor develops 58,000 pounds of thrust

TTR personnel were particularly interested in seeing the X15, since they provide optical and radar support for two programs associated with the hypersonic craft.

In one program, the range provides radar digital data on a Massachusetts Institute of Technology experiment carried on the X15.

As part of the other program, TTR provides both optical and radar coverage of the deployment and recovery of the aircraft's two external fuel tanks when they are dropped over the range. Each of the tanks is 24 feet long and three feet in diameter.



TTR RADAR OPERATORS (I to r) Kenneth Datz, Lloyd Young and Grant Gardner (all 7231) had the opportunity to see the hypersonic X15 being readied for an overland trip to Edwards Air Force Base, Calif., after a recent emergency landing.

Helen Bond Recalls Naval Service On Current Sites of LRL and SCLL

Helen Bond (8233) is one ex-WAVE who would like to be on deck when the women of the Navy in World War II celebrate their 25th anniversary at a reunion in San Diego July 20-23.

"I have so many wonderful memories from my service days," says Helen, "and I made many friends. Occasionally, I still see those living in the Bay Area, and I correspond with others."

Helen feels the two years she spent in the WAVES were a tremendous experience. ''Being

away from home and dropped into the middle of a group of strangers from all walks of life, forces you to get along on your own," she said.

According to Helen, the single thing that has helped her most was the discipline she learned. "I feel this is something I could have acquired nowhere else," she comment-

Helen joined the WAVES in July 1943 in Wichita, Kans., where she had been working for Cessna Aircraft Company. After spending approximately nine weeks in "boot camp" at Hunter College in New York City, she was assigned to the Naval Pre-Flight Training Air Station at Livermore.

Lawrence Radiation Laboratory now occupies the grounds and buildings which formerly based the Naval facility of over 600 people. Approximately 150 WAVES on duty with the group lived in a barracks which was the only structure on Sandia's side of the road.

SCIL's administration building (Bldg. 911) now stands on the site where the barracks was located. Large fields surrounded the barracks, and Helen recalls playing softball where Bldg. 916 now stands. "Except for some wooden buildings and the swimming pool at LRL, no sign remains of the Livermore Air Station," she commented.

Helen, a seaman first class at the time, worked as a parachute rigger's assistant. "We could have a parachute folded, packed and ready to go in 20 minutes," she recalled.

"Sometimes I assisted during test flights of the chutes. We'd fly over nearby hills and drop 150-pound dummies with chutes to check chute performance. One of the dummies was named 'Foxy' after me." (Helen's maiden name was Foxworthy.)

Helen says she clearly remembers the



"IT STILL FITS!" exclaims Helen Bond (8233) as she dons the uniform she wore as a WAVE during World War II. The WAVES celebrate their 25th anniversary at a reunion in San Diego July 20-23.

feeling in the group when a cadet needed to use a chute in an emergency situation. "We were happy it opened and secretly hoped it was one of the chutes we had packed."

After 13 months in Livermore, Helen was transferred to the Naval Air Station at Alameda. While stationed there she married and soon after was honorably discharged from the WAVES.

She feels military service for women, even today, can be most rewarding. "I have two children now, and if my daughter wanted to enlist, I would be all for it," she said. "I believe the service is an excellent way to develop independence in young people and to teach them the ability of associating easily with people. These are things that will remain with them the rest of their lives."

Welcome . . . Newcomers

June 20 - 28

California	
Clayborne L. Heil, Oakland	8252
Bruce J. Held, Canoga Park	
Stephen C. Jardin, Berkeley	8135
John A. Jarrell, Redwood City	8158
*Craig E. Johnston, Berkeley	8151
Donald M. Kasberg, Redwood City	8252
Tom J. Larsen, Belmont	8252
*Nancy C. McCorkle, Livermore	
*Cleo M. Mozer, Livermore	
*Dorn L. Schmidt, Castro Valley	
Stephen A. Schwegel, Castro Valley	8151
Richard B. Tanner, Santa Barbara	8147
*Denotes rehire	

Sympathy

To Lloyd Goodrich (8127) for the death of his mother in Renton, Wash., June 16.

To Sharon (8213) and Vic Ham (8252-5) for the death of her father in Advance, Ind., June 19.

Graphic Artists Earn Recognition



Ed Watchempino (8233)

LIVERMORE CULTURAL ARTS COUNCIL has chosen the entry of Ed Watchempino of Graphic Arts and Presentation Services Division 8233 in the competition sponsored by the organization for an new letterhead design. Ed won over 32 others who entered the competition.



Tom Gleason (8233)

FLYING PARTICLES, the LRL flying club, has awarded Tom Gleason (8233) first place in the contest held to secure a cartoon-type design for use as an identifying insignia on the club's aircraft and as a letterhead. A script "F" and "P" make a simple monogram.

LIVERMORE NEWS



SCHOOL AND CITY OFFICIALS learn about principles of the Program Evaluation and Review Technique (PERT) from M. J. Becktell (8161). Participants in the presentation at Livermore Laboratory expect to apply the technique to current projects in the Livermore and Pleasanton school districts and city governments.

Livermore Notes

Employees who have technical books and journals which they no longer want are reminded that LRL continues to offer the opportunity of contributing to international friendship through the People-to-People program.

Cartons for donations are located at collection centers in the LRL cafeterias. Material donated is picked up, sorted, packed and shipped by People-to-People volunteers. The books and journals are destined for universities, colleges and libraries in such countries as Pakistan, India, Burma, the Malayan Peninsula, Thailand, Indonesia and the Philippines.

The fact that some of the publications may seem outdated does not matter, since most of the basic information they contain is still valid.

M. M. Balaban of Analytical Division 8149 was a co-author of a technical article which appeared in the May issue of JOURNAL OF MATHEMATICAL PHYSICS. The article, entitled "Simple Force Multipoles in the Theory of Deformable Surfaces," was jointly authored with P. M. Naghdi of the University of New Castle, England, and A. E. Green of the University of California at Berkeley.

Morris Mote (8142) and family have been hosts for the past six months to a Brazilian student from Rio de Janeiro. Chris Farias visited this country as part of the Youth for Understanding program in international living. She attended high school in Pleasanton with one of the Motes' daughters, Glenna. Glenna has now left to spend the summer attending school, sightseeing and visiting in Uruguay under the same youth exchange program.

Ed English took first place in Division 8158's Round Robin Chess Tournament. The win came on the fourth day of play of the third game between Ed and Mike Stephenson. Rules stated that the winner must win two out of three games. The eight-man noon-time tourney, coordinated by Homer Sidlow, began May 1.

P. D. Anderson (8141), G. J. Rohwein (8125), and R. E. Rychnovsky (8148) presented technical papers at a DASA-sponsored conference held at Batelle Memorial Institute, Columbus, Ohio, July 11-13.

Chabot College is presenting weekly planetarium programs for the public. The programs are scheduled Tuesdays and Thursdays at 7:30 p.m. Admission is free and reservations are not required. The planetarium is located in Bldg. 1900 on the Chabot campus at 25555 Hesperian Boulevard, Hayward.

The remaining programs are as follows: July 18, 20—The Sun and the Northern Lights; July 25, 27—Our Closest Neighbor in Space; Aug. 1, 3—Eclipses of the Sun and Moon; Aug. 8, 10—Galactic Systems.

S. S. Chiu of Applied Mechanics Division II, 8147, jointly authored a technical article which appeared in the May issue of JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS. The article, entitled "Difference Method for Wave Analysis of the Split Hopkinson Pressure Bar with a Viscoelastic Material," was coauthored with V. H. Neubert of Pennsylvania State University.

The Sunday afternoon series of programs presented each summer in San Francisco's Stern Grove is underway. Ranging from Broadway musicals to grand opera, the concerts start at 2 p.m. and are free to the public.

Remaining concerts in the 1967 schedule are: July 16, winners of the San Francisco Opera auditions; July 23, jazz concert; July 30, the Nerola Opera program; Aug. 6, "The Barber of Seville," produced by the new Western Opera Theater; Aug. 13, Gilbert and Sullivan's "H.M.S. Pinafore"; and Aug. 20, Arthur Fiedler and the San Francisco Symphony in a pops concert.

Tickets are still available for the Comedy Film Series, a new activity introduced recently by the Lawrence Radiation Laboratory Recreation Association. The series is offered for LRL or Sandia employees and members of their immediate families. Films are presented every other Wednesday in the LRL Auditorium, Bldg. 111, 8-10 p.m. Cost of the series is \$2.50 per person.

Films scheduled for the remainder of the series are: July 26, "The World of Abbott and Costello," "Horse Trail," and "Pay as You Exit"; Aug. 9, "The Best of Enemies" and "The Pharmacist"; Aug. 23, "Stop, Look, and Laugh," "Beginner's Luck," and "Globetrotters"; Sept. 6, "Good Neighbor Sam"; and Sept. 20, "Down Memory Lane," "Fatty and Mabel at the World's Fair," and "Baby Makes Two."

For tickets or further information, contact Pat Jordan, LRL ext. 7051.

Jim Culver (8222) found a fox on the roof of his home in Tracy. He called the police who climbed a ladder, took aim with a tranquilizer gun fired and missed. The fox jumped off the roof and headed up the street. Meanwhile the police received a call from a nearby neighbor who reported a fox had run through his yard and jumped a fence. The fox cleverly backtracked but was again located under a trailer on another street. This time the officer hit the fox with a shot, but the tranquilizer needle didn't tranquilize, and the fox was off again. Later police received a call from a Tracy resident relating that the fox was her pet. At last report the elusive fox was still at large!

Service Awards

15 Years



J. C. Cunningham 2413

Margaret Petrillo 3461



W. W. Joseph 9331

W. B. Mabery 4544



W. C. Garcia 3244



A. L. Gregory 4613

R. I. Peterson 8127







E. S. Roth Authors

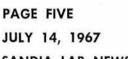


Entitled "Functional Inspection Techniques," the

new book is publicized as a companion book al receiver gages," Mr. Roth says.

The book is designed primarily for use in conjunction with the manufacture of small lots of parts of all sizes. Immediate results can be achieved since the procedures described do not require the design or production of functional receiver gages. There is also discussion of techniques for inspecting variables with surface plate equipment, optical projectors, and coordinate inspection machines.

Mr. Roth has been at Sandia Laboratory since 1951 engaged in manufacturing engineering, product design, tool and gage design, quality control, inspection and numerical control. He is a member of ASTME, the American Institute of Industrial Engineers, and the American Society



Second ASTME Book The American

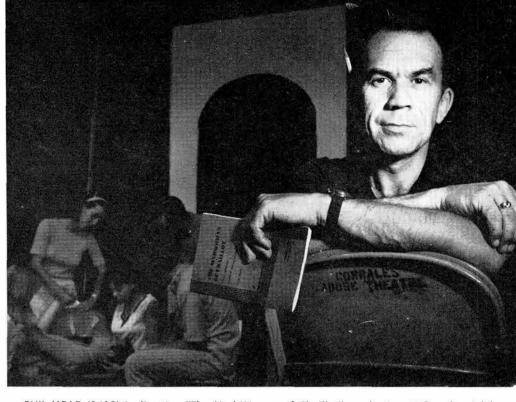


Society of Tool and Manufacturing Engineers has published a second book by Edward S. Roth of Manufacturing Process Division 2565.

to his previously published "Functional Gaging of Positionally Toleranced Parts." "The inspection techniques described can be used to obtain the benefits of functional gaging without the expense and time required to design and manufacture function-

for Quality Control.

SANDIA LAB NEWS



PHIL MEAD (3412) is directing "The Mad Woman of Chaillot" production at Corrales Adobe Theater. The show opens tonight at 8:30 p.m. and will be presented each Friday, Saturday and Sunday evening through July 30. W. F. Carstens (3410) is a member of the cast. For reservations call 898-3323.

Authors

George Voida (1432), "How to Make Fluorosilicone Rubber Cable Assemblies," Part 1, June issue, and Part 2, July issue, INSULATION.

J. A. Corll (9332), "The Effect of Pressure on the Elastic Parameters and Structure of CdS," May 15 issue, PHYSICAL REVIEW.

N. J. DeLollis and O. Montoya (1133), "Mode of Failure in Structural Adhesive Bonds," June issue, JOURNAL OF AP-PLIED POLYMER SCIENCE.

J. R. Holland (9332), "Strain Aging Effects and Stress Relaxation in Iron During Shock Loading," May issue, ACTA METALLURGICA.

R. A. Hill (5122), "Fractional-Intensity Widths and Stark-Broadening Formulas for the Hydrogen Balmer Lines," May-June issue, JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER.

D. E. Wanner (1122) and F. J. Conrad (2134), "Purification of Analytical Grade Cation Exchange Resin for Spectrochemical Applications," May-June issue, AP-PLIED SPECTROSCOPY.

W. B. Pepper (9324), "A 20-Foot Diameter Ribbon Parachute for Deployment at Dynamic Pressures above 4000 psf," May-June issue, AIAA JOURNAL OF AIRCRAFT.

R. E. Nettleton (5155), "Lattice Dynamical Theory of Switching in Barium Titanate Single Crystals" and "Renormalization and the First-Order Ferroelectric Transition in Perovskites," June issue, JOURNAL OF APPLIED PHYSICS.

R. T. Meyer (5234), "Reaction of Excited Iodine Atoms $({}^{2}P_{1/2})$ in the Flash Photolysis of Methyl Iodide," May 15 issue, JOURNAL OF CHEMICAL PHYSICS, and "Apparatus for Flash Photolysis and Time Resolved Mass Spectrometry," June issue, JOURNAL OF SCIENTIFIC INSTRU-MENTS.

W. J. O'Sullivan and J. E. Schirber (both 5151), "Accurate de Haas van Alphen Periods for Calibration of Magnetic Fields at Low Temperature," April issue, CRYO-GENICS; "Fermi Surface of In under Hydrostatic Pressure," June issue SOLID STATE COMMUNICATIONS; "Effect of Hydrostatic Pressure on the Fermi Surface of Be," July issue, PHYSICS LETTERS.

J. A. Halbleib, Sr. (7113), "Gamow-Teller Beta Decay in Heavy Spherical Nuclei and the Unlike Particle-Hole Random Phase Approximation," June 5 issue, NUCLEAR PHYSICS.

Death

Eunice Savage, a record clerk in Design Information Services Division 2234, died July 3. She was 44.

She had worked at Sandia since June 1957.

Survivors include her husband and daughter.

SHOPPING CENTER

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10 Years

July 14-27
R. E. Martin 2543, Dorothy L. Noel 3241, S. N. Gaeto 4113, S. F. Harvey, Sr. 4151, W. F. Hartman 7252, R. A. Mikkelsen 7331, T. F. Jones 8151, A. J. Wiemken 8152, D. E. Randall 9314, H. J. Cilke 9424, M. H. Martin 3126, D. M. Garst 2565, D. H. Weingarten 1422, M. A. Pound 8214, E. C. Rightley 9523, J. T. Geohegan 2541.
P. A. Martinez 2555; E. Marry Gallegos 3428, Jeni L. Sweley 4112, J. A. Laster 9223, P. F. Martinez 9411, Mildred P. Johnson 9412, R. E. Esterly 9414, J. R. Crye, Jr. 4544, J. D. Jones 2521, F. E. Candelaria 9412, R. P. Pardee 1133, W. J. McCabe 4631, L. F. Roybal 4631, and L. M. Stone 9221.

CLASSIFIED ADVERTISING Deadline: Friday noon prior to week of publication unless changed by holiday. A maximum of 125 ads will be accepted for each issue. RULES

- RULES
 Limit: 20 words
 One ad per issue per person
 Must be submitted in writing
 Use home telephone numbers
 For Sandia Corporation and
 AEC employees only
 No commercial ads, please
 Include name and organization
 Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

FOR SALE

REAL ESTATE

BELOW FHA appraisal, immediate occupancy, one block from Grant Los Altos School, Mossman 3-bdr., den, 134 bath, 2 fp, pitched. Maciolek, 299-1696.

2.5 ACRES alfalfa, South Valley, Valencia County, conservancy water, community irrigation well, natural gas, electricity, building restrictions, \$7000. Asturias, 299-4173.

MOUNTAIN LAND, 40 acres in Sandias off Frost Rd., \$500/acre, less for cash. Ault, 282-3280. 3-BDR, 134 bath, brick, VA loan, AC, 4 blks. to Sandia Base, carpeted, landscaped, near schools and churches, 1109 Florida SE. Johnson, 255-

3-BDR., 2 baths, Mossman, at FHA appraisal, buy my equity and assume 534% FHA loan. Pittenger, 299-6908.

3-BDR., 134 bath, FR, fp, formal DR, 1900 sq. ft., pitched roof, hw/floors, 534% FHA loan. Neel, 299-9309.

NEAR ACF, 3-bdr., den, 2 fp, 1600 sq. ft., large shade trees, AC, 2-car carport. Roth, 243-7049.

3-BDR. Snow, single parage, 1 bath, newly painted inside and outside, AC, fp, \$12,000, 10116 Propp NE. Downing, 299-6945.

3-BDR., 134 baths, DR, AC, carpeting, covered patio, sprinklers, walled yard, fp, \$15,400. Martell, 299-0833. INCOME PROPERTY Country Club area, 2-bdr. home

plus 2 1-bdr. furnished apts., monthly income \$225, excellent financing arrangements. Barbour, 255-5949.

SHOPPING CENTER

2 TO 5 ACRE mountain homesites in Sandoval County, near Placitas, \$750 acre w/terms. Stuber, 299-2414.

3-BDR, workshop, garage, 134 bath, fenced, land-scaped, forced air, AC, carpeting, drapes, no present mortgage, terms flexible. Quigley, 299-3178.

TWO ACRE riverfront homesite, Blanco Basin, Colo., all-year access road, cleared, well, protective covenants, hunting, fishing recreation. Seaver, 298-6215.

4-BDR. ROBERSON, 3 baths, paneled den, fp, carpet, \$100 below appraisal for cash to GI loan. Levesque, 299-1213.

HOFFMAN 3-bdr., carpet. AC, drapes, sprinklers, landscaped, remodeled kitchen, 13/4 bath, furniture option, consider leasing. Brannon, 296-4443.

CARS & TRUCKS

'53 PACKARD 2-dr., \$250 or best offer. Doherty, 298-2457 before noon.

'59 OLDSMOBILE 98 Holiday, all power, AT, \$395; '55 Ford V8 4-dr., \$225. 1413 Guaymas, Houghton, 299-3386.

'59 FORD wagon, R&H, \$175. Garcia, 242-1182. TRUCK-CAMPER, '56 GMC 34 ton pickup, one owner, many extras, commercial camper, sleeps 3 adults, built-in stove, sink, icebox, etc., \$1300 cash. Eggert, 247-0311 ext. 2965 or 2970.

'63 CHEV. Bel Air, 2-dr. sedan, \$895. Yuhas, 268-5380.

'62 VW 2-dr. sedan, R&H, seat covers, priced below NADA at \$850. Gise, 264-3585. '52 CHEV. 1/2-ton, 3 spd. pickup, '55 engine. Hewitt, 256-6483.

'57 PLYMOUTH 2-dr. HT. 66,000 miles, original owner, newly painted. McKinley, 268-4779.

'55 CHEV. 4-dr., AT. R&H, 295. Pope, 816 Val Verde SE, 255-6702.

'65 VOLKSWAGEN sedan, R&H, wsw tires, rear air-flo windows, sky blue, 17,112 miles, \$1495. Browning, 268-8260.

'66 FORD Fairlane 500, AC, 289 V8, OD, factory warranty, 10 mos. old., \$2000. Duffey, 298-'59 VOLKSWAGEN sedan, \$325. Moyer, 345-0567.

'57 KARMANN-GHIA, new paint, \$595. Sarason,

'67 MGB roadster, wire wheels, low mileage, assume payments. Cota, 344-4213. '60 VOLKSWAGEN, new factory rebuilt engine, new brakes, windshield & clutch, \$695. Kyser, 296SHOPPING CENTER

'64 VW CAMPER, 1500 engine, sell or trade for pickup truck. Holt, 299-5943. '65 TR4 blue, Michelin tires, radio, extras, \$100 under book. Maglidt, 268-7601.

MISCELLANEOUS

UNPAINTED fender skirts for a '65 Plymouth Fury, \$4; assorted official topographical maps of New Mexico, 20 cents ea. Petersen, 255-7433.

CLARINET, B-flat, Bundy, \$75; car top r station wagon size, \$9. England, 299-0464. GOLF BAG-CART combination, tan vinyl, 14 compartments, zippered hood and pockets, 14" hall-bearing fold-up wheels, never used, \$22. Daut,

CAR TOP CARRIER, 36"x36", all steel frame w/mesh bottom, cost \$30, sell for \$10. Hammons, 296-1142.

ARGUS M3 movie camera; Argus 500 projector; travel trailer spare tire; vibrator sander; man's bowling ball, 16-lb. McGarvie, 298-7941.

TRAILER, '61 Skyline (Winchester), 56 x 10', 21/2 bdr., completely furnished w/hardrock maple furn., incl. TV, \$3600. Udell, 256-2613 or 255-0258. FOUR 7:50x14 used tires, \$10 set or will trade for two 6:40x15 tires. Miller, 255-1324.

GE 8900 BTU window mount air conditioner, 220v, used three summers, \$90. Leisher, 296-2469.

HI-FI—monaural Craftsman CID tuner, Heathkit Williamson amplifier, Garrard changer, walnut cab-inet. infinite impedance speaker cabinet, \$100. Kepler, 298-5652.

PIANO, Baldwin Howard spinet, less than 3 yrs. old. Randall, 256-1853.

PICKUP SEAT, '65 Ford, red color, \$25. Roh, 299-

STEREO. Bell tape and record playback system with AM/FM radio complete w/speakers, \$175. Ream, 299-2076.

REGISTERED QUARTER HORSE, 3 yrs. old, Palomino mare. Randle, Placitas.

EARY AMERICAN couch; refrigerator; electric store; 21" RCA TV; wheelbarrow; washing machine that needs repair; lawn mower. Wilson, 298-0049. REK-O-KUT turntable w/Grado arm and GE v/r cartridge in walnut-stained base, make offer. Woolsey, 299-5186.

DISHWASHER, Lady Kenmore 600, 2 yrs. old, \$70. Robinett, 344-6507.

GARAGE SALE: goodies from several households, things for babies, lawns, campers, homes, cars, etc., July 15 & 16, 516 Dartmouth Dr. SE. Barnett.

SHOPPING CENTER

AVAILABLE, 4 housebroken, people-trained kittens, no blood lines but a remarkable heritage, references. Johnson, 255-8851.

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CHECK WRITER, \$100; Danish mod. walnut crib, \$35; mattress, \$12; wooden play pen & pad, \$10; 4 light oak dining chairs, \$5 ea.; oak coffee table, \$20. Hole, 265-7455.

HIGH CHAIR, Storkline, sturdy wood w/attached tray, \$3. McMillin, 282-3226.

191/2 FT. Aristocrat camping trailer, completely self-contained, sleeps six. Whiting, 298-6598.

10" SIGNAL oscillating table or wall fan, adjustable tilt, 3 spds., sell for \$10. Van De Velde, 255-8174. GASOLINE power mower, \$25; bar stools, swivel, wooden, \$5 ea.; Lindsay automatic water softener,

used, \$25. Abbott, 842-9692. '66 BSA Victor 441 motorcycle, Wright, 298-1182

BIKE, 20" girl's, new paint, thorn-proof tubes, \$15 or will trade for 24" girl's. Coleman, 299-

RCA 23" console TV. Shoemaker, 255-8820. BICYCLE, girl's Schwinn 24", 3-spd., \$20. Hall, 255-9740

REFRIGERATOR, 9 cu. ft., International Harvester. \$30. Dalphin, 265-4029. 17" PORTABLE TV, \$25. Garcia, 256-7606.

GARAGE SALE—Misc. household items and auto-motive parts and tools. 1817 Elizabeth NE. John-

CAMPING TRAILER, sleeps 5, refrig. & stove, 10 x 10 detachable awning, 19', 1958 model, \$650. Wilson, 268-3633.

JEEP ENGINE, 4-cyl., complete w/starter, generator, ignition system, and complete clutch assembly, \$50. Cashion, 242-3345. NEW sofa bed, light green, \$35; matching chair, \$25; single bed, \$30. Mellone, 298-6449.

16.7 FT. boat & trailer, Starcraft w/90 hpm. Cooper, 299-7636 after 6. FEATHERWEIGHT portable Singer sewing machine

w/buttonhole attachment. Cruze, 256-9338. GE refrigerator, \$40; antique kerosene lamp, \$20; set weights, \$18; child's hiking boots, 1C, \$4. King, 299-3778.

PEDIGREED miniature Poodle, female, 1 mo. old, AKC registered, \$75; 2 wing-back chairs, green and red, \$15 ea. Richardson, 298-1688.

3-CHANNEL STEREO, AM-FM/mult., Motorola, w/record changer, oiled walnut cabinet, 11/2 yrs. old. Martin, 298-6644.

SHOPPING CENTER

PICNIC TABLE; 10" table saw; battery operated tape recorder; make offer. Wenz, 299-5488. CAR WINDOW evaporative air cooler and pair metal steps for trailer. Williams, 298-2671.

WANTED

CHILD CARE in my home, vicinity of Montgomery & Morris, prefer boy between 3 and 6 years old. Seaburn, 299-2215.

RIDE from Area I to Sandia Base Nursery and out to Central & Carlisle. Forn, 265-8989. BUY OR RENT: 3-bdr. house w/backyard, send description to R. Halbgewachs, 2437D Redbud, Lawrence, Kans. 66044.

PERSON to enroll in German at U of A. Kirtland emesters college accredited course. Burd, 296-4124.

College girl wants summer housework job in SE heights area. Baars, 255-9051. CHILD'S SLIDE. Johnson, 255-5427.

WILL TRADE: '63 Dodge Polara convertible V8 for pickup of comparable age and condition, cash dif-ferences negotiable. Miller, 282-3168.

WILL pay cash for used classical guitar in good condition. Foster, 296-1162.
USED GIRL'S 24" or 26" bicycle in good condition. Garcia, 256-7606.

'63 RAMBLER American. Schwoebel, 268-6440.

SHARE ride in 2 or 3 man car pool to 892 or 880 vicinity Constitution and Wyoming. Devor, 264-5973.

ROOMER to share 3-bdr., 2-car garage, furnished house, split expense, about \$130. mo. total. Wilson, 10600 Constitution NE, 298-8955.

RIDE to Bldg. 800 from Montgomery and Louisiana July 17 thru July 28. Linnerooth, 299-6154. USED card tables. Richardson, 298-1688.

TO TRADE: young tropical fish. Crites, 256-7967.

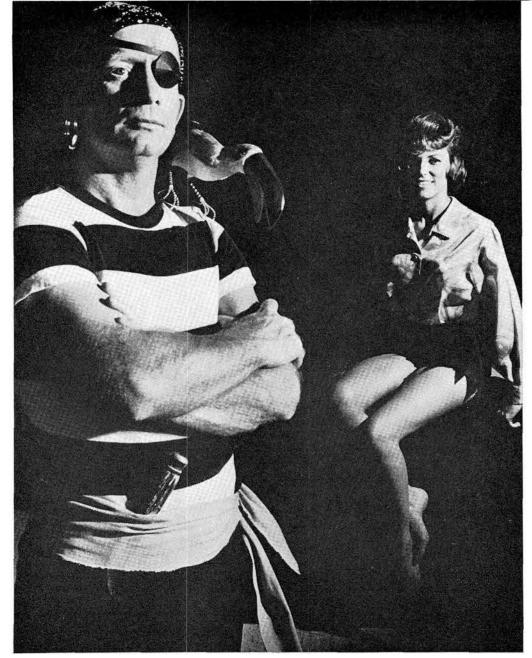
FOR RENT

COTTAGE, modern, furnished, well insulated, Sandia Park, water and propane paid, carport, suitable for two, \$45/mo., available July 15. McMillin, 282,332 282-3226.

2 BDR. APT., brick, elec. kitchen, drapes, carpeting, AC, storage, built-ins, ceramic tile. Fegan, 3413 Thaxton SE, 255-7192.

2-BDR. APT. in brick triplex, 528 Cardenas SE, store and refrig., AC, storage room. Tillman, 255-6292.

FURNISHED or unfurnished house, near University, hospitals, buslines: 1 bdr., study, patio, w/built-in BBQ, garage, AC. Fernandez, 299-2839 eveninger



CLEAR COURSE to the Coronado Club pirate party Saturday, July 22, is charted by Jim Walston (3463) and Judy Eslinger (3126/9324). Social hour, a special seafood buffet, dancing and swimming are planned for the event.

Coronado Club Activities

Yo-ho-ho Mates, Buccaneers Will Gather July 22 for Pirate Party

A little midsummer madness is planned by the Coronado Club with the Buccaneer's Buffet and Swimming Party scheduled for launch Saturday, July 22.

The grog keg opens at 6 p.m. with social hour prices until 7 when a special seafood buffet will be spread. Long Tom Kelly and the Freebooters will walk the musical plank at 9 p.m. The twin pools will be open until midnight.

Naturally, this calls for proper pirate costumes and a lot of yo-ho-ho. Tickets (\$1.50 for members, \$2 for guests) should be picked up at the Club office by 9 p.m. July 21.

Fashion Shows

Sandi Reger, former Miss New Mexico and fashion coordinator for Wards, will present "Transeason Preview Fashions" during the lunch hour Monday, July 17, at the Club.

This will be the first of a series of noon-hour fashion shows. The second is scheduled Monday, Aug. 14, and will feature Norma Manson of Sears with "Fall Fashion for Career People."

She will also present "Youthquake Fashions" Monday, Sept. 11.

Two models are needed for next Monay's fashion show If you are interested contact Hubert Pée, Club manager, tel. 264-4561.

Teenage Go Go

Next Thursday, July 20, the youngsters will take over the ballroom for the monthly Teenage Go Go. The Eternal Nothings will be wired to the bandstand for amplified dancing. The current switches on at 7:30 and the fuse blows at 10:30 p.m. Member parents should pick up tickets (25 cents, 50 cents for guests) by 5 p.m. July 20 from the Club office.

Social Hours

Exotic buffets continue at Social Hours. Tonight, Austrian food is the feature. The Aristocrats will be on the bandstand. The buffet costs \$1.50 for adults, \$1.25 for kids.

On Friday, July 21, the mighty Sol Chavez and the Bernalillo Brass return to the bandstand to make the happy music. The Mexican food buffet will be spread. Pat Reich and piano will entertain in the main lounge.

The chuckwagon beef will top the buffet Friday, July 28, while the Rhythm Masters occupy the bandstand.

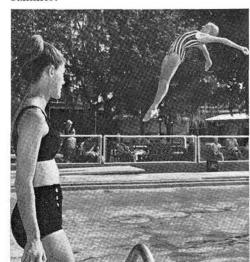
The duplicate bridge group meets Monday, July 17, ladies bridge meets Thursday, July 20, and the monthly master point competition will be played Monday, July

New Diving Class Starts Monday at Coronado Club Pool

Instruction for a new two-week diving class will start Monday at 9 a.m. at the Coronado Club. Enrollment in the class is open to any dependent of a Club member who holds a season swim ticket.

Instructor is Mrs. Caroline Curry, coach for the Coronado Club diving team. She has competed in diving competitions as a team member of the University of Texas, University of Tulsa and University of Houston, She was an AAU Junior Olympic Champion for several years.

The class will meet from 9 to 9:40 Monday through Saturday for two weeks. Fee is \$5 and enrollment may be accomplished by calling the Club swimming pool office, tel. 264-5287. New classes in both swimming and diving are organized and conauctea every summer.



CAROLINE CURRY (left), Coronado Club diving team coach, instructs a class in the fine points of the aquatic skill. A new twoweek diving class starts Monday, July 17. To enroll your youngsters, call the pool office at the Coronado Club, 264-5287.

'Send Aid' Litter Bag Sign Helps Joe Ozmina Continue Vacation

"It worked," Joe Ozmina (4632) says, "and I needed help badly."

Joe was referring to the "Send Aid" sign printed in fluorescent pink letters on a plastic litter bag. The bags were distributed to all employees by Safety Education Divi-

On a recent vacation trip to California, Joe stopped at the side of the road to let his family take a closer look at the Arizona desert west of Yuma. When he started to resume the trip, he found that the roadside was mainly sand, and he buried his rear wheels up to the axle trying to move out.

He tried to flag down a car, but none

'At least 20 cars passed me by," Joe says. "Americans aren't too eager to help strangers anymore."

Then Joe remembered the litter bag and the sign. He got it from the car and flashed it at oncoming cars. A car stopped and Joe explained his problem. The motorist agreed to contact the American Automobile Association garage in the next town Holtville, Calif.

Within an hour the tow truck arrived and Joe continued his trip.

"The grandchildren had a great time in Disneyland," Joe says.

Welcome . . . Newcomers

Albuquerque

Lawrence C. Allen Duane A. Benton	0.032.07
Duane A. Benton	2212
	2212
Virginia D. Chapman Ruby C. Cochrell Maria E. Garcia	3'54
Ruby C. Cochrell	2526
Maria E. Garcia	3153
Christine A. Hennig Virginia M. Leatherman	9426
Virginia M Leatherman	2154
Victor Lira	2011
Caraca I	
George Luna	3415
James F. Menzel	3412
Ernest J. Montoya	4574
*Eulita M. North Richard P. Péwé	4233
Richard P. Péwé	4121
Yvonne J. Sandoval	3126
Alabama	
William C. Hines, Auburn	FOFO
California	5233
California	
C. Mark Percival, Davis	5133
C. Mark Percival, Davis *Edward C. Reilly, Redondo Beach	3465
Colorado	
Lewis C. Bartel, Fort Collins	5131
Lewis C. Bartel, Fort Collins	2213
Connecticut	
Howard D. Christianson, New Haven	2210
Howard D. Christiansen, New Haven Allen L. Stanley, New Haven	3312
Allen L. Stanley, New Haven	33 3
Delaware	and the second
*Melvin D. Fimple, Newark	9427
Florida	
*Joel S. Gilbert, Gainesville	9312
Georgia	
George O. Lawrence, Atlanta	4151
Idaho	
Steven E. Benzley, Idaho Falls	1140
Illinois	1142
Challes I Carlo Cli	
Stephen J. Sweig, Chicago	9324
lowa	
George C. Novotny, Jr., Monticello	
Irving J. Hall, Ames	2153
Kansas	
E. Frederick Hartman, Jr., Lawrence	2113
Louisiana	
James H. Kesinger, Slidell	2011
James n. Kesinger, Sildell	3211
Maryland	
The first of the f	5253
Robert E. Huddleston, Hyattsville	
Robert E. Huddleston, Hyattsville	
Robert E. Huddleston, Hyattsville	9422
Robert E. Huddleston, Hyattsville	9422
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman	
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton	2211
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton	2211
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton Charles J. Miglionico, Philadelphia Francis H. Sieradzki, Lower Burrell	2211
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton Charles J. Miglionico, Philadelphia Francis H. Sieradzki, Lower Burrell Texas	2211 1122 2212
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton Charles J. Miglionico, Philadelphia Francis H. Sieradzki, Lower Burrell Texas E. Kavin Palmer, El Paso	2211 1122 2212 4113
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton Charles J. Miglionico, Philadelphia Francis H. Sieradzki, Lower Burrell Texas E. Kavin Palmer, El Paso James A. Rupley, Bryan	2211 1122 2212 4113
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton Charles J. Miglionico, Philadelphia Francis H. Sieradzki, Lower Burrell Texas E. Kavin Palmer, El Paso James A. Rupley, Bryan Washington	2211 1122 2212 4113 9422
Robert E. Huddleston, Hyattsville Montana William R. Gavin, Bozeman Pennsylvania Daniel G. Dellicker, Topton Charles J. Miglionico, Philadelphia Francis H. Sieradzki, Lower Burrell Texas E. Kavin Palmer, El Paso James A. Rupley, Bryan Washington John C. Austin, Spokane	
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Retired

Mary Alma Bascom. Support Logistics Section 2554-2, retired July 7. after more than 18 years at Sandia She joined the Company in December 1948 as a records clerk and has worked in the same organization the en-



tire time. Her most recent responsibilities included all the clerical work for the field stores account.

Mary elected to take early retirement in order to care for her mother who was injured in an accident at home. "I won't make any retirement plans until my mother recovers," Mary said. "I'll be taking care of our rose garden, and be able to do much more reading."

Sympathy

To Henry Roy (2523-1) for the death of his mother in Pawtucket, R. I., June 11.

To Genevieve R. Hines (2213) for the death of her mother in Orange, Texas,



"IT WORKS," Joe Ozmina (4632) savs about this litter bag sign. He needed help during his recent vacation

Events Calendar

July 14—Feast Day, Cochiti Pueblo. July 14 and 22—"La Boheme"; July 15, "Carmen"; July 26 and 28, "Cardillac," Santa Fe Opera.

July 14-16, 21-23, 28-30-"Mad Woman of

Chaillot," Corrales Adobe Theatre. July 14-16—Annual rodeo, Santa Fe.

July 14-16—"Chicago" and "War"; July 21-23, "Go for Baroque," Old Town Studio, tel. 242-4602.

July 14-23-"A View from the Bridge"; July 26-Aug. 6, "Luv," Santa Fe Theatre Company, Greer Garson Theatre.

July 15-16—Cabresto area near Questa. N. M. Mountain Club, leader Bob Babb, tel. 256-9016.

July 17—Lecture Under the Stars, William Crowley on "Enchanting Japan," UNM Administration Bldg.

July 21—Santa Fe Opera Orchestra concert at UNM Concert Hall.

July 24-Lecture Under the Stars, Hans Schild on "Present Day Germany," UNM Administration Bldg.

July 25-Santiago's Day dances at Santa Ana, Taos, Laguna, Acoma Pueblos.

July 26-Corn dances at Taos, Acoma and Santa Ana Pueblos.

Sandia Safety Signals

Do It Yourselfers

The gas chain saw is the most dangerous power tool rented. It should be used only when you are standing on the ground or are on solid footing. Leave pruning of high tree limbs to the professionals.

Water Skiing

The National Safety Council recommends that when water skiing, two people in the boat are a must - one to watch the skier while the other keeps eyes front for other boats and swimmers. Even for good swimmers, vests are safer than life belts.

Fish Hooks

Needle-sharp fish hooks and lures pose a real threat to your eyesight when trout fishing season starts and the banks of streams and lakes are crowded with anglers. The wise fisherman will take no risks. Through wearing inexpensive all-purpose safety goggles, he can guarantee that what he snags will not be his eye.